# Bioengineering B.S. Degree: Bioelectronics 2017-2018 Curriculum Chart

## Math & Statistics
- **MATH 3** or math placement of 400 or higher
- **MATH 19A**
- **MATH 19B**
- **AMS 10** Math Methods for Engineers I
- **AMS 20**
- **AMS 131** Intro to Probability Theory
- **AMS 131 or CMPE 107**
- **AMS 132**

## Physics
- **MATH 19A or 20A**
- **PHYS 5A/L** Intro to Physics I/Lab
- **PHYS 5B/M** Intro to Physics II/Lab
- **PHYS 5C/N** Intro to Physics III/Lab

## Chemistry
- **Previous or concurrent enrollment in MATH 3 or Math Placement score of 300 or higher**
- **CHEM 1A** General Chemistry
- **CHEM 1B/M** General Chemistry/Lab
- **CHEM 1C/N** General Chemistry/Lab

## Computer Engineering
- **CMPE 12/L** Computer Systems & Assembly Language/Lab
- **CMPE 13/L**
- **CMPE 100/L** Logic Design/Lab

## Biology & Biotechnology
- **CHEM 1A**
- **BIO 20A**
- **BIO 20B** Development & Physiology
- **BIOE 20A** Cell & Molecular Biology

## Humanities
- **BME 80G** Bioethics in the 21st Century
- **CMPE 107 or CMPE 12**
- **CMPE 13/L**

## Electronics
- **CMPE 129A, 129B, & 129C**
- **CMPE 132B or 12**
- **CMPE 132**
- **EE 103**

## Computer Science
- **CMPS 5J, CMPS 5P, CMPS 10 or equivalent**
- **CMPS 100**
- **CMPS 12B or CMPE 12**
- **CMPE 13/L**
- **CMPE 12/L**
- **CMPE 100/L**
- **CMPE 123A & 123B**
- **CMPE 129**

## Design Project
- **Prerequisites listed below**
  - **CMPE 129A** CMPE 121/L
  - **CMPE 129B**
  - **EE 129**
  - **CMPE 129C**

## Senior Thesis
- **BME 195**
- **BME 195 (2 credits)**
- **BME 195 Senior Thesis**
- **BME 195 Senior Thesis**

## Prior to graduation (beng.soe.ucsc.edu)
you must:
1. Submit a Portfolio
2. Complete an Exit Survey
3. Attend an Exit Interview

## Notes:
- Denotes prerequisites and corequisites.
- Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.
- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: [http://ua.soe.ucsc.edu/declare](http://ua.soe.ucsc.edu/declare)
- CMPS 5P Intro. to Prog. in python is recommended for students who have never programmed
- Major qualification requirements for this major can be found at: [https://ua.soe.ucsc.edu/major-qualification](https://ua.soe.ucsc.edu/major-qualification)

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## Bioengineering B.S. Degree: Bioelectronics
### 2017-2018 Curriculum Chart

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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**